## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application using (Original) (Currently Amended) (New) (Canceled) (Previously Presented) nomenclature, as recited in the below listing of claims.

1. (Currently Amended) A hinge for positioning a left panel and a right panel, the hinge comprising,

an inflatable bladder for encapsulating an inflation material,

a top film extending between the left and right panels and encapsulating a curing resin, and

a bottom film extending between the left and right panels, the top film and bottom film are circumferentially disposed about the bladder, the top film having a top circumferential length, the bottom film having a bottom circumferential length, the top and bottom circumferential lengths for angularly positioning the left and right panels as the inflatable bladder is inflated.

2. (Original) The hinge of claim 1 further comprising,

a flex circuit extending from the left panel and around the bladder for electrically routing power from the left panel.

24 3. (Original) The hinge of claim 1 wherein,

the inflation material is a sublimation powder disposed in the bladder for inflating the bladder.

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1 4. (Currently Amended) The hinge of claim 1 further comprising, 2 uncured resin disposed between the top and bottom films, the 3 uncured resin being cured by exposure to UV light, and 4 a reflective coating disposed on the bladder for reflective UV 5 light into the curing the uncured resin for curing the uncured resin to ridigize the hinge to secure in position the top and 6 7 bottom film for permanently securing in position the left and right 8 panels. 9 10 5. (Original) The hinge of claim 1 further comprising, 11 a left frame for securing the left panel to the top film and to 12 the bottom film and to the bladder, and 13 a right frame for securing the right panel to the top film and 14 to the bottom film and to the bladder. 15 6. (Original) The hinge of claim 1 further comprising, 16 17 a left frame for supporting the left panel to the top film and to the bottom film and to the bladder, 18 19 a left adhesive layer for securing the left frame to the left 20 panel and to the top film and to the bottom film and to the 21 bladder, 22 a right frame for supporting the right panel to the top film and - 23 to the bottom film and to the bladder, and 24 a right adhesive layer for securing the right frame to the right 25 panel and to the top film and to the bottom film and to the 26 bladder. 27

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7. (Original) The hinge of claim 1 further comprising, 1 2 a flex circuit extending from the left panel and around the bladder for electrically routing power from the left panel, 3 a plurality of ground pads disposed on the top and bottom films, 4 a plurality of extensions comprising conductive traces extending 5 from the flex circuit to the plurality of ground pads, 6 7 respectively, for distributively grounding the hinge. 8 9 10 (Original) The hinge of claim 1 further comprising, 11 a flex circuit extending from the left panel and around the 12 bladder for electrically routing power from the left panel, 13 a plurality of ground pads disposed on the top and bottom films and disposed on and under the left and right panels, and 14 15 a plurality of extensions comprising conductive traces extending 16 from the flex circuit to the plurality of ground pads, - 17 respectively, for grounding the hinge. 18 19 9. (Original) The hinge of claim 1 further comprising, a flex circuit extending from the left panel and around the 20 bladder for electrically routing power from the left panel, the 21 22 left panel being a solar cell panel comprising a silver contact and 23 a thin film solar cell, the flex circuit comprising a conductor

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panel and around the bladder.

trace connected the silver contact for routing power from the left

10. (Currently Amended) The hinge of claim 1 wherein the curing 1 resin is cured by exposure to UV light, wherein the sun ejects 2 electrons producing static electrical charge and the sun emits UV 3 4 light exposing the hinge to UV light and static electrical charge, 5 the hinge further comprising, uncured resin disposed between the top and bottom films, the 6 7 uncured resin being cured by exposure the to UV light, and a coating disposed over the top and bottom films for passing UV 8 9 light and for conducting static electrical charge, the coating 10 serving to discharge static electrical charge accumulating on the coating, the UV light curing the uncured resin to ridigize the 11 12 hinge to secure in position the top and bottom film for permanently securing in position the left and right panels. 13 15 11. (Currently Amended) The hinge of claim 1 wherein the curing

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resin is cured by exposure to UV light, the sun ejects electrons producing static electrical charge and the sun emits UV light exposing the hinge to UV light and static electrical charge and , the hinge further comprising,

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uncured resin disposed between the top and bottom films, the uncured resin being cured by exposure to the UV light, and

a transparent coating disposed over the hinge for passing UV light and for conducting static electrical charge, the coating comprising indium tin oxide and magnesium fluoride, the transparent coating serving to discharge static electrical charge accumulating on the transparent coating, the UV light curing the uncured resin to ridigize the hinge to secure in position the top and bottom film for permanently securing in position the left and right panels.

12. (Previously Presented) The hinge of claim 1 wherein the left panel is a solar cell panel for providing power, the hinge further comprising,

a flex circuit extending from the left panel and around the bladder and comprising a trace conductor for electrically routing power from the left panel having an electrical contact and around the bladder, and

a wrap around contact for electrically connecting the electrical contact and the trace conductor.

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13. (Currently Amended) A hinge for positioning a left panel and a right panel, wherein the sun ejects electrical charge producing static electrical charge and the sun emits UV light exposing the hinge to UV light and static electrical charge, the hinge comprising,

## uncured resin,

a top film for encapsulating a curing the uncured resin, the curing uncured resin being cured by exposure to UV light, the top film having a top circumferential length for defining the apposition between the left and right panels, and

a coating disposed over the top film for passing the UV light for curing the <u>curing uncured</u> resin and for static discharge protection of the <u>top</u> film, the coating serving to discharge static electrical charge accumulating on the coating, the UV light curing the uncured resin to ridigize the hinge to secure in position the top and bottom film for permanently securing in position the left and right panels.

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14. (Currently Amended) The hinge of claim 13, the hinge further 1 2 comprising, a bladder filled with a sublimation powdered for expanding the 3 4 bladder, and a bottom film, the top film and bottom films are 5 6 circumferentially disposed about the bladder, the bottom film 7 having a bottom circumferential length, the top and bottom 8 circumferential length defining the position between the left and 9 right panels when the bladder has expanded. 10 15. (Original) The hinge of claim 13, wherein, 11 12 the coating comprises indium tin oxide and magnesium fluoride. 13 14 15 16. (Currently Amended) A hinge for positioning a left panel and a 16 right panel, where the sun emits UV light exposing the hinge to UV 17 light, the hinge comprising, 18 a curing uncured resin, a top film coupled to the left and right panels and for 19 20 encapsulating the curing uncured resin, the curing uncured resin 21 being cured by exposure to the UV light, the top film having a top 22 circumferential length for defining an angular position between the 23 left and right panels, the UV light curing the uncured resin to 24 ridigize the hinge to secure in position the top film for 25 permanently securing in position the left and right panels.

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